

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number
WO 2005/035820 A1

(51) International Patent Classification⁷: **C23C 14/04**,
B01J 19/00, C23C 16/04

(21) International Application Number:
PCT/GB2004/004255

(22) International Filing Date: 8 October 2004 (08.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0323671.8 9 October 2003 (09.10.2003) GB

(71) Applicant (for all designated States except US): UNI-
VERSITY OF SOUTHAMPTON [GB/GB]; Highfield,
Southampton SO17 1BJ (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GUERIN, Samuel
[FR/GB]; 111 Maenaghton Road, Bittern Park, Southamp-
ton SO18 1GG (GB). HAYDEN, Brian, Elliott [US/GB];
35 Khartoum Road, Highfield, Southampton SO17 1NY
(GB).

(74) Agent: TUBBY, David, George; Marks & Clerk, 90 Long
Acre, London WC2E 9RA (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BI, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: VAPOUR DEPOSITION METHOD

(57) Abstract: In a vapour deposition method which can be used to deposit mixtures of materials in progressively varying amounts on a substrate (1) and which can be used for a variety of purposes, but is of especial value in combinatorial chemistry, the path of the vaporised material from the source (3) to the substrate (1) is partially interrupted by a mask (5), the positioning of the mask in a plane parallel to the plane defined by the substrate (1) being such that the material is deposited on the substrate (1) in a thickness which increases substantially continuously in a direction along the substrate (1).

WO 2005/035820 A1